

## **Historic, Archive Document**

Do not assume content reflects current scientific knowledge, policies, or practices.



25B114  
U6A3  
C2

United States  
Department of  
Agriculture

## Marketing and Regulatory Programs

## Agricultural Marketing Service



# Plant Variety Protection Office Official Journal

## Volume 25, No. 2 Quarterly Report

April 1 - June 30, 1997



USDA LIBRARY  
NAT'L AGRIC LIBR  
6-19 A 7:30

printed February 1998

## PREFACE

The Plant Variety Protection Act (7 U.S.C.2321 et seq.) authorizes the Secretary of Agriculture to publish an Official Journal to provide the public with information relating to the operations of the Plant Variety Protection Office. The statute also authorizes the Secretary to disseminate technological and other information that encourages innovation and progress in plant breeding.

The Official Journal is published quarterly and is available at no charge from:

Plant Variety Protection Office  
Science and Technology  
Agricultural Marketing Service  
U.S. Department of Agriculture  
Rm. 500, NAL Bldg.  
10301 Baltimore Blvd.  
Beltsville, Maryland 20705-2351

Telephone: 301/504-5518  
Facsimile: 301/504-5291  
<http://www.ams.usda.gov/science/pvp.htm>



CONTENTS

	PAGE
I. APPLICATIONS: Actions taken April 1, through June 30, 1997	
a) Received.....	3
b) Amended.....	15
II. CERTIFICATES: Actions taken April 1, through June 30, 1997	
a) Applications Abandoned, Withdrawn, Denied or Ineligible.....	17
b) Issued, and Novelty Based on the Applicant's Claim.....	18
c) Amended.....	25
d) Expired.....	32
III. GENERAL INFORMATION.....	35



## APPLICATIONS RECEIVED

APRIL 1, 1997 TO JUNE 30, 1997

Applications for protection have been filed for the following varieties. Each application has been assigned an application number and is being examined to determine whether the variety is entitled to a certificate of protection. Seed of these varieties may be labeled "Unauthorized Propagation Prohibited - U.S. Variety Protection Applied For - PVPA 1994."

APPL. NO.	VARIETY	1994 ACT	GEN. (*)	APPLICATION DATE	NAME OF APPLICANT
ALFAFLA 9700277	DK143		Y	04/17/1997	Dekalb Genetics Corporation
9700278	DK140		Y	04/17/1997	Dekalb Genetics Corporation
9700279	Tulare		Y	04/28/1997	Novartis Seeds, Inc.
9700281	Arrest		Y	04/23/1997	Novartis Seeds, Inc.
9700299	DK141		Y	05/19/1997	Dekalb Genetics Corporation
3 BARLEY 9700296	<TR-133>		Y	(*) 05/12/1997	Saskatchewan Wheat Pool
BEAN, FIELD 9700334	<BF 609>		Y	06/06/1997	Rogers Seed Co.
BEAN, GARDEN 9700327	<XP B344>		Y	06/04/1997	Seminis Vegetable Seeds, Inc.
9700328	P1x		Y	06/04/1997	Seminis Vegetable Seeds, Inc.

(\*) To be sold by variety name only as a class of certified seed. A number within parenthesis indicates the number of generations of certified seed permitted beyond breeder's seed.

<> Identifies temporary designations.

Y Denotes application is filed under the Plant Variety Protection Act as amended 1994.

APPLICATIONS RECEIVED  
APRIL 1, 1997 TO JUNE 30, 1997

APPL. NO.	VARIETY	1994 ACT	GEN. (*)	APPLICATION DATE	NAME OF APPLICANT
BEAN, GARDEN (continued)					
9700329	Storm	Y		06/04/1997	Seminis Vegetable Seeds, Inc.
9700330	Stallion	Y		06/04/1997	Seminis Vegetable Seeds, Inc.
BENTGRASS, CREEPING					
9700294	Mariner	Y	(*)	05/06/1997	Texas Agricultural Experiment Station
BLUEGRASS, GLAUCANTHA					
9700285	Dragon	Y		04/21/1997	Zajac Performance Seeds
BLUEGRASS, KENTUCKY					
9700349	Cache	Y		06/25/1997	Seeds Inc.
CELERY					
9700331	<EXP 340>	Y		06/09/1997	Tanimura & Antle, Inc.
9700332	<EXP 108>	Y		06/09/1997	Tanimura & Antle, Inc.
9700333	<EXP 109A>	Y		06/09/1997	Tanimura & Antle, Inc.
COTTON					
9700249	DP 5690 <sup>RR</sup>	Y		04/04/1997	Delta and Pine Land Company d/b/a Deltapine Seed

(\*) To be sold by variety name only as a class of certified seed. A number within parenthesis indicates the number of generations of certified seed permitted beyond breeder's seed.

< > Identifies temporary designations.

Y Denotes application is filed under the Plant Variety Protection Act as amended 1994.

APPLICATIONS RECEIVED  
APRIL 1, 1997 TO JUNE 30, 1997

APPL. NO.	VARIETY	1994 ACT	GEN. (*)	APPLICATION DATE	NAME OF APPLICANT
COTTON (continued)					
9700250	DP 90 <sup>b</sup>	Y	04/04/1997	Delta and Pine Land Company d/b/a Deltapine Seed	
9700251	DP 5415 <sup>RR</sup>	Y	04/04/1997	Delta and Pine Land Company d/b/a Deltapine Seed	
9700252	DP 32 <sup>b</sup>	Y	04/04/1997	Delta and Pine Land Company d/b/a Deltapine Seed	
9700253	DP 20 <sup>b</sup>	Y	04/04/1997	Delta and Pine Land Company d/b/a Deltapine Seed	
9700254	DP 50 <sup>b</sup>	Y	04/04/1997	Delta and Pine Land Company d/b/a Deltapine Seed	
9700255	DP 90 <sup>RR</sup>	Y	04/04/1997	Delta and Pine Land Company d/b/a Deltapine Seed	
9700276	DP 5111	Y	04/25/1997	Delta and Pine Land Company d/b/a Deltapine Seed	
9700283	UTE	Y	04/30/1997	Brownfield Seed and Delinting Co., Inc.	
9700284	DP5557	Y	04/25/1997	Delta and Pine Land Company d/b/a Deltapine Seed	
9700289	DP 5305	Y	04/25/1997	Delta and Pine Land Company d/b/a Deltapine Seed	
9700326	DP 2379	Y	06/04/1997	AgriPro Seeds, Inc.	

(\*) To be sold by variety name only as a class of certified seed. A number within parenthesis indicates the number of generations of certified seed permitted beyond breeder's seed.

< > Identifies temporary designations.

Y Denotes application is filed under the Plant Variety Protection Act as amended 1994.

APPLICATIONS RECEIVED  
APRIL 1, 1997 TO JUNE 30, 1997

APPL. NO.	VARIETY	1994 ACT	GEN. (*)	APPLICATION DATE	NAME OF APPLICANT
COTTON (continued)					
9700344	HS-12	Y		06/19/1997	J & S Research Company, Inc.
9700345	HS-22	Y		06/19/1997	J & S Research Company, Inc.
COMFEA					
9700286	Charleston Greenpack	Y		04/16/1997	Agricultural Research Service U.S. Department of Agriculture
FESCUE, TALL					
9700256	Durango	Y		04/04/1997	Pure-Seed Testing, Inc.
9700257	Matador	Y		04/04/1997	Pure-Seed Testing, Inc.
LETTUCE					
9700270	Pacific Pride	Y		04/09/1997	Ferry-Morse Seed Company
9700298	Desert Green	Y		04/16/1997	Seminis Vegetable Seeds, Inc.
9700338	Adela	Y		06/10/1997	Rogers Seed Co.
9700346	Valley Green	Y		06/20/1997	Ferry-Morse Seed Company

(\*) To be sold by variety name only as a class of certified seed. A number within parenthesis indicates the number of generations of certified seed permitted beyond breeder's seed.

< > Identifies temporary designations.

Y Denotes application is filed under the Plant Variety Protection Act as amended 1994.

APPLICATIONS RECEIVED  
APRIL 1, 1997 TO JUNE 30, 1997

APPL. NO.	VARIETY	1994 ACT	GEN. (*)	APPLICATION DATE	NAME OF APPLICANT
PEA 9700348	Solido	Y	(*)	06/24/1997	Cebeco Zaden B.V.
PEANUT 9700275	AT 120	Y	(3)	04/21/1997	Agratech Seeds Inc.
	GENETEX Valencia 102	Y	(3)	06/09/1997	H & W Genetex, Inc.
	GENETEX Valencia 101	Y	(3)	06/09/1997	H & W Genetex, Inc.
PEPPER 9700287	Dempsey	Y		04/18/1997	University of Georgia Research Foundation, Inc.
POTATO, IRISH 9700269	<W84-75R>	Y		04/09/1997	Wisconsin Alumni Research Foundation
	Erntestolz	Y		04/14/1997	Hettema Zonen Kweekbedrijf B.V.
RAPE 9700291	IMC 140	Y	(1)	04/30/1997	Cargill, Incorporated
	Magnum	Y		06/02/1997	Limagrain Genetics Inc.

(\*) To be sold by variety name only as a class of certified seed. A number within parenthesis indicates the number of generations of certified seed permitted beyond breeder's seed.

< >

Identifies temporary designations.

Y Denotes application is filed under the Plant Variety Protection Act as amended 1994.

APPLICATIONS RECEIVED  
APRIL 1, 1997 TO JUNE 30, 1997

APPL. NO.	VARIETY	1994 ACT.	GEN. (*)	APPLICATION DATE	NAME OF APPLICANT
RAPE (continued)					
9700321	LG 3310		Y	06/02/1997	Limagrain Genetics Inc.
9700322	Trailblazer		Y	06/02/1997	Limagrain Genetics Inc.
9700323	Ebony		Y	06/02/1997	Limagrain Genetics Inc.
9700324	LG 3333		Y	06/02/1997	Limagrain Genetics Inc.
9700325	LG 3260		Y	06/02/1997	Limagrain Genetics Inc.
RESCUEGRASS					
9700295	Stocker		Y	05/01/1997	Cascade International Seed Co.
RYEGRASS, ANNUAL					
9700347	Tachimusha		Y	06/20/1997	Snow Brand Seed Company

(\*) To be sold by variety name only as a class of certified seed. A number within parenthesis indicates the number of generations of certified seed permitted beyond breeder's seed.  
< > Identifies temporary designations.  
Y Denotes application is filed under the Plant Variety Protection Act as amended 1994.

APPLICATIONS RECEIVED  
APRIL 1, 1997 TO JUNE 30, 1997

APPL. NO.	VARIETY	1994 ACT	GEN. (*)	APPLICATION DATE	NAME OF APPLICANT
RYEGRASS, PERENNIAL	9700246 Omega 3	Y		04/01/1997	Pure-Seed Testing, Inc.
	9700280 Brightstar II	Y		04/14/1997	Pure-Seed Testing, Inc.
	9700290 Premier II	Y		04/30/1997	Barenburg Holland B.V.
SOYBEAN	9700247 Athow	Y	(1)	04/02/1997	Purdue University and USDA-ARS
	9700248 GCS Raydor	Y		04/02/1997	Gold Country Seed, Inc.
	9700258 DP 5644 <sup>RR</sup>	Y		04/04/1997	Delta and Pine Land Company d/b/a Deltapine Seed
	9700259 DP 5767 <sup>RR</sup>	Y		04/04/1997	Delta and Pine Land Company d/b/a Deltapine Seed
	9700260 DP 5806 <sup>RR</sup>	Y		04/04/1997	Delta and Pine Land Company d/b/a Deltapine Seed
	9700261 DP 5960 <sup>RR</sup>	Y		04/04/1997	Delta and Pine Land Company d/b/a Deltapine Seed
	9700262 DP 6200 <sup>RR</sup>	Y		04/04/1997	Delta and Pine Land Company d/b/a Deltapine Seed
	9700265 S13-J6	Y		04/08/1997	Novartis Seeds, Inc.

(\*) To be sold by variety name only as a class of certified seed. A number within parenthesis indicates the number of generations of certified seed permitted beyond breeder's seed.

< > Identifies temporary designations.

Y Denotes application is filed under the Plant Variety Protection Act as amended 1994.

APPLICATIONS RECEIVED  
APRIL 1, 1997 TO JUNE 30, 1997

APPL. NO.	VARIETY	1994 ACT. (*)	GEN. ACT.	APPLICATION DATE	NAME OF APPLICANT
SOYBEAN (continued)					
9700266	S21-A1	Y	Y	04/08/1997	Novartis Seeds, Inc.
9700267	S28-T3	Y	Y	04/08/1997	Novartis Seeds, Inc.
9700268	S43-B5	Y	Y	04/08/1997	Novartis Seeds, Inc.
9700272	SF567RR	Y	Y	04/21/1997	Asgrow Seed Company
9700273	Delta King 5961	Y	Y	04/21/1997	Asgrow Seed Company
9700274	SF477 <sup>RR</sup>	Y	Y	04/17/1997	Asgrow Seed Company
9700292	CX570C	Y	Y	05/01/1997	Dekalb Genetics Corporation
9700293	Traill	Y	(3)	05/05/1997	NDSU Research Foundation
9700297	HY 663	Y	Y	04/29/1997	Agripro Seeds, Inc.
9700300	A1553	Y	Y	05/28/1997	Asgrow Seed Company
9700301	AG2501	Y	Y	05/28/1997	Asgrow Seed Company

(\*) To be sold by variety name only as a class of certified seed. A number within parenthesis indicates the number of generations of certified seed permitted beyond breeder's seed.

< >

Identifies temporary designations.

Y Denotes application is filed under the Plant Variety Protection Act as amended 1994.

APPLICATIONS RECEIVED  
APRIL 1, 1997 TO JUNE 30, 1997

<u>APPL. NO.</u>	<u>VARIETY</u>	<u>1994 ACT</u>	<u>GEN. (*)</u>	<u>APPLICATION DATE</u>	<u>NAME OF APPLICANT</u>
<b>SOYBEAN (continued)</b>					
9700302	AG2301		Y	05/28/1997	Asgrow Seed Company
9700303	AG3002		Y	05/28/1997	Asgrow Seed Company
9700304	AG4901		Y	05/28/1997	Asgrow Seed Company
9700305	AG4702		Y	05/28/1997	Asgrow Seed Company
9700306	A2553		Y	05/28/1997	Asgrow Seed Company
9700307	AG2702		Y	05/28/1997	Asgrow Seed Company
9700308	A5959		Y	05/28/1997	Asgrow Seed Company
9700309	AG5602		Y	05/28/1997	Asgrow Seed Company
9700310	A5704		Y	05/28/1997	Asgrow Seed Company
9700311	AG2101		Y	05/28/1997	Asgrow Seed Company

(\*) To be sold by variety name only as a class of certified seed. A number within parenthesis indicates the number of generations of certified seed permitted beyond breeder's seed.

< > Identifies temporary designations.

Y Denotes application is filed under the Plant Variety Protection Act as amended 1994.

APPLICATIONS RECEIVED  
APRIL 1, 1997 TO JUNE 30, 1997

APPL. NO.	VARIETY	1994 ACT	GEN. (*)	APPLICATION DATE	NAME OF APPLICANT
SOYBEAN (continued)					
9700312	AG1901		Y	05/28/1997	Asgrow Seed Company
9700313	A3559		Y	05/28/1997	Asgrow Seed Company
9700314	AG2401		Y	05/28/1997	Asgrow Seed Company
9700315	A4604		Y	05/28/1997	Asgrow Seed Company
9700316	A2869		Y	05/28/1997	Asgrow Seed Company
9700317	A3904		Y	05/28/1997	Asgrow Seed Company
9700318	S24-12		Y	05/27/1997	Novartis Seeds, Inc.
9700335	CX255		Y	06/09/1997	Dekalb Genetics Corporation
9700339	TN 4-94		Y	(2) 06/10/1997	Tennessee Advance Genetics, Inc
9700340	TN 5-95		Y	(2) 06/10/1997	Tennessee Advance Genetics, Inc.

(\*) To be sold by variety name only as a class of certified seed. A number within parenthesis indicates the number of generations of certified seed permitted beyond breeder's seed.

< > Identifies temporary designations.

Y Denotes application is filed under the Plant Variety Protection Act as amended 1994.

APPLICATIONS RECEIVED  
APRIL 1, 1997 TO JUNE 30, 1997

APPL. NO.	VARIETY	1994 ACT	GEN. (*)	APPLICATION DATE	NAME OF APPLICANT
<b>SOYBEAN (continued)</b>					
97/00341	H4998		Y	06/09/1997	Hartz Seed - A Unit of Monsanto
97/00342	H564		Y	06/09/1997	Hartz Seed - A Unit of Monsanto
<b>SUNFLOWER</b>					
97/00288	PF 090R		Y	04/25/1997	Pannar Seed Ltd.
<b>WATERMELON</b>					
97/00271	<2270>		Y	04/10/1997	Willhite Seed Inc.
<b>WHEAT, COMMON</b>					
97/00263	Bradley		Y (3)	04/08/1997	HybriTech Seed International, A Unit of Monsanto Company
97/00264	Shelby		Y (3)	04/08/1997	HybriTech Seed International, A Unit of Monsanto Company
97/00319	Elkhorn		Y	05/30/1997	NDSU Research Foundation
97/00343	Keene		Y (1)	06/18/1997	NDSU Research Foundation
97/00350	25w33		Y	06/25/1997	Pioneer Hi-Bred International, Inc.

(\*) To be sold by variety name only as a class of certified seed. A number within parenthesis indicates the number of generations of certified seed permitted beyond breeder's seed.

< > Identifies temporary designations.

Y Denotes application is filed under the Plant Variety Protection Act as amended 1994.

APPLICATIONS RECEIVED  
APRIL 1, 1997 TO JUNE 30, 1997

APPL. NO.	VARIETY	1994 ACT	GEN. (*)	APPLICATION DATE	NAME OF APPLICANT
WHEAT, COMMON (continued) 9700351	25R26	Y		06/25/1997	Pioneer Hi-Bred International, Inc.
9700352	25R57	Y		06/25/1997	Pioneer Hi-Bred International, Inc.

(\*) To be sold by variety name only as a class of certified seed. A number within parenthesis indicates the number of generations of certified seed permitted beyond breeder's seed.

< > Identifies temporary designations.

Y Denotes application is filed under the Plant Variety Protection Act as amended 1994.

APPLICATIONS AMENDED  
APRIL 1, 1997 TO JUNE 30, 1997

Information concerning the varieties below has been published previously in the "Official Journal's" list of applications received. During the examination process, the applicant requested this information be amended as indicated below.

APPL. NO.	VARIETY	GEN. (*)	APPLICATION DATE	NAME OF OWNER
9300155	Masaki		03/08/1993	Rogers Seed Co.
9300156	Teseo		03/08/1993	Rogers Seed Co.
9600085	Unidor		12/12/1995	Seminis Vegetable Seeds, Inc.
9600086	Canberra		12/12/1995	Seminis Vegetable Seeds, Inc.
				Name of applicant (owner) changed from Petoseed Co. Inc. to Seminis Vegetable Seeds, Inc.
				Name of applicant (owner) changed from Petoseed Co. Inc. to Seminis Vegetable Seeds, Inc.
9500227	Princess		05/26/1995	Seeds West, Inc.
				Variety with the temporary designation of <FMC-77> named 'Princess'

(\*) To be sold by variety name only as a class of certified seed. A number within parenthesis indicates the number of generations of certified seed permitted beyond breeder's seed.

< > Identifies temporary designations.

APPLICATIONS AMENDED  
APRIL 1, 1997 TO JUNE 30, 1997

<u>APPL. NO.</u>	<u>VARIETY</u>	<u>GEN. (*)</u>	<u>APPLICATION DATE</u>	<u>NAME OF APPLICANT</u>
LETUCE 9500183	Boston Beauty		05/18/1995	Seminis Vegetable Seeds, Inc.
	Variety name changed from 'Green Beauty' to 'Boston Beauty'.			
PEA 9400055	SP110-1-2-7-2		12/29/1993	Rogers Seed Company
	Variety with the temporary designation of <SP110-1-2-7-2> named 'SP110-1-2-7-2'.			
9400056	SP704-3-8		12/29/1993	Rogers Seed Company
	Variety with the temporary designation of <SP704-3-8> named 'SP704-3-8'.			

(\*) To be sold by variety name only as a class of certified seed. A number within parenthesis indicates the number of generations of certified seed permitted beyond breeder's seed.

< > Identifies temporary designations.

APPLICATIONS ABANDONED, WITHDRAWN, DENIED, OR INELIGIBLE  
APRIL 1, 1997 TO JUNE 30, 1997

Applications for the varieties listed below are no longer being considered for U.S. plant variety protection. Although propagation of these varieties is no longer prohibited by the U.S. Plant Variety Protection Act, varieties published in this list may possibly be protected under the Patent Act.

KIND	APPL. NO.	VARIETY
CELERY	9500080	Comet
CLOVER, CAUCASIAN	9400187	Rhizo
COTTON	9400132	Holland 850
COTTON	9500072	Terra 302
ONION	9200240	<SSC 8380>
PAPAYA	9200203	San Antonio Early
PAPAYA	9200204	San Antonio Sweet
PEA	9400082	Targhee
SWEETPEA	9200177	Bouquet Mid-Blue
SWEETPEA	9200178	Bouquet Salmon Cream Pink
SWEETPEA	9200179	Bouquet Scarlet
SWEETPEA	9200180	Bouquet White
WHEAT, COMMON	9500276	Colby 94

< > Identifies temporary designations.

CERTIFICATES ISSUED, AND NOVELTY BASED ON APPLICANT'S CLAIM  
APRIL 1, 1997 TO JUNE 30, 1997

CERT. NO.	VARIETY	1994 ACT	GEN. (*)>	ISSUE DATE	NAME OF OWNER
ALKALIGRASS, 9500128	WEEPING Salty	Y	04/30/1997	Lofts Seed, Inc.	
	'Salty' is most similar to 'Fults'; however, 'Salty' has a darker leaf color (Munsell Book of Color 75GY 4/4 vs 5GY 4/4) than 'Fults'.				
BEAN, FIELD 9300068	Norstar	Y	(3) 06/30/1997	NDSU Research Foundation	
	'Norstar' is most similar to 'C-20'. However, 'Norstar' is resistant to <u>Uromyces appendiculatus</u> (Pers. Pers.) Unger, the causal organism for rust, races 43 and 50 and susceptible to race 63, whereas 'C-20' is susceptible to races 43 and 50 and resistant to race 63.				
9300225	Drake	06/30/1997	Seminis Vegetable Seeds, Inc.		
	'Drake' is most similar to 'Charlevoix'; however, 'Drake' carries the "I" gene for resistance to BCMV, whereas 'Charlevoix' does not.				
9300258	Alpine	(2) 05/30/1997	Michigan State University		
	'Alpine' is most similar to 'Starlight'; however, 'Alpine' has a smaller seed than 'Starlight' (36 vs 43 grams/100 seeds, respectively). Also, 'Alpine' has a CIAT type-IIa architecture (growth habit), whereas 'Starlight' has a type-IIb architecture.				

(\*) To be sold by variety name only as a class of certified seed. A number within parentheses indicates the number of generations of certified seed permitted beyond breeder's seed.

CERTIFICATES ISSUED, AND NOVELTY BASED ON APPLICANT'S CLAIM  
APRIL 1, 1997 TO JUNE 30, 1997

CERT. NO.	VARIETY	1994 ACT.	GEN. (*)	ISSUE DATE	NAME OF OWNER
CLOVER, RED 9400136	Scarlett Y		Y	04/30/1997	Dairyland Seed Company, Inc. 'Scarlett' is most similar to 'Marathon'; however, 'Scarlett' has a 10-14% double headed tendency in the full flower stage, whereas that of 'Marathon' is between 1 and 2%. Also, 'Scarlett' reaches maturity (50% flowering) 3 days later than 'Marathon'.
CORN, FIELD 9500003	L222 L222			04/30/1997	Limagrain Genetics Corp. 'L222' is most similar to 'B37'. 'L222' differs from 'B37' in heat units to pollen maturity (1321 vs 1538 h.u.) and days to pollen maturity (70 vs 79 days).
OAT 9400245	811 811		Y	04/30/1997	Arkansas County Seed Company, Inc. '811' is most similar to 'Southern States 76-30'; however, '811' differs from 'Southern States 76-30' in lemma awn length (30 vs 19 mm, respectively). Also, '811' differs from 'Southern States 76-30' in resistance to race TX55 of <u>Puccinia coronata</u> f. sp. <u>avenae</u> , the causal organism of crown rust, (resistant vs susceptible, respectively).
ORCHARDGRASS 9400087	Elsie Elsie			04/30/1997	Pure-Seed Testing, Inc. 'Elsie' is most similar to 'Potomac'; however, 'Elsie' heads 7 days later than 'Potomac' (in Oregon). Also, 'Elsie' has greater resistance to <u>Puccinia striiformis</u> , which causes stripe rust, and to <u>Rhynchosporum</u> spp., which causes leaf scald, than does 'Potomac'.

(\*) To be sold by variety name only as a class of certified seed. A number within parentheses indicates the number of generations of certified seed permitted beyond breeder's seed.

CERTIFICATES ISSUED, AND NOVELTY BASED ON APPLICANT'S CLAIM  
 APRIL 1, 1997 TO JUNE 30, 1997

CERT. NO.	VARIETY	1994 ACT.	GEN. (*)	ISSUE DATE	NAME OF OWNER
PEA 9400055	SP110-1-2-7-2 'SP110-1-2-7-2'	Y	04/30/1997	Rogers Seed Company 'SP110-1-2-7-2' is most similar to 'Stringless Sugar Snap' and 'Sugar Daddy'; however, 'SP110-1-2-7-2' matures to edible pods earlier than 'Stringless Sugar Snap' and 'Sugar Daddy' (63 vs 69 days, respectively). Additionally, 'SP110-1-2-7-2' blooms an average of 2 nodes earlier than 'Stringless Sugar Snap' and 'Sugar Daddy'.	
9400056	SP704-3-8 'SP704-3-8'	Y	04/30/1997	Rogers Seed Company 'SP704-3-8' is most similar to 'Stringless Sugar Snap' and 'Sugar Pop'; however, 'SP704-3-8' averages 10 days earlier to first bloom than 'Stringless Sugar Snap'. Also, under short and cold days conditions 'SP704-3-8' matures 5 to 6 days later than 'Sugar Pop' (121 vs 116 days, respectively).	
9400075	Kalamo 'Kalamo'	Y	05/30/1997	Seminis Vegetable Seeds, Inc. 'Kalamo' is most similar to 'Encore'; however, 'Kalamo' has a filia foliage, whereas 'Encore' has normal or standard foliage.	
PEANUT 9600322	AT 108 'AT 108'	Y	(3) 06/30/1997	AgraTech Seeds Inc. 'AT 108' is most similar to 'GK-7'; however, 'AT 108' is shorter in plant height (22.3 vs 39.9 cm) than 'GK-7'.	

(\*) To be sold by variety name only as a class of certified seed. A number within parentheses indicates the number of generations of certified seed permitted beyond breeder's seed.

CERTIFICATES ISSUED, AND NOVELTY BASED ON APPLICANT'S CLAIM  
 APRIL 1, 1997 TO JUNE 30, 1997

CERT. NO.	VARIETY	1994 ACT.	GEN. (*)	ISSUE DATE	NAME OF OWNER
PEANUT (continued)					
9700074	NC 12C	Y	(3)	06/30/1997	North Carolina Agricultural Research Service
					'NC 12C' is most similar to 'NC 7'; however, 'NC 12C' exhibits greater resistance to <u>Cylindrococcum parasiticum</u> (28 vs 77% infection on infected soils) than 'NC 7'.
9700275	AT 120	Y	(3)	06/30/1997	Agratech Seeds Inc.
					'AT 120' is a prostrate runner variety that has a Spanish type morphology with flowering on the main stem and flowering at every node.
PUMPKIN 9500001	Tom Fox	Y	06/30/1997	Johnny's Selected Seeds	
	'Tom Fox'	is most similar to 'Howden'.			
					'Tom Fox' differs from 'Howden' in fruit length (26 vs 29 cm).
SAFFLOWER 9600148	Erlin	Y	(*)	06/30/1997	Research and Development Institute, Inc.
	'Erlin'	is most similar to 'Oker'; however, 'Erlin' has a higher percentage of seed oil (42 vs 39%) than 'Oker' during cool growing seasons with below average growing degree units.			
Soybean 9300209	A3304	Y	06/30/1997	Asgrow Seed Company	
	'A3304'	is most similar to 'A3242', 'A3200', and 'A3322'; however, 'A3304' is susceptible to races 1, 3, 4, 5, 7, 8, 9, 13, 16, 17, 21, and 25 of <u>Phytophthora megasperma</u> f. sp. <u>glycinea</u> . It has white flowers, tan pod walls, seeds with black hilum, and the A1S1 gene conferring tolerance to sulfonylurea herbicides. In contrast, 'A3242' has purple flowers, brown pod walls and is susceptible to sulfonylurea herbicides. 'A3200' has resistance to races 1, 3, 7, 8, 9, 13, 17, and 21 of <u>P. f. sp. glycinea</u> . 'A3322' is susceptible to sulfonylurea herbicides.			

(\*) To be sold by variety name only as a class of certified seed. A number within parentheses indicates the number of generations of certified seed permitted beyond breeder's seed.

CERTIFICATES ISSUED, AND NOVELTY BASED ON APPLICANT'S CLAIM  
APRIL 1, 1997 TO JUNE 30, 1997

CERT. NO.	VARIETY	1994 ACT.	GEN. ISSUE (*) DATE	NAME OF OWNER
SOYBEAN (continued)				
9400012	S75-55	Y	05/30/1997	Northrup King Company
	'S75-55' is most similar to 'Braxton' and 6847; however, 'S75-55' has resistance to races 3 and 14 of <u>Heterodera glycinea</u> (soybean cyst nematode) whereas 'Braxton' is susceptible to those races of that nematode. 'S75-55' has purple flowers and tawny pubescence whereas '6487' has white flowers and gray pubescence.			
9300238	9242	Y	05/30/1997	Pioneer Hi-Bred International, Inc.
	'9242' is most similar to '9301'; however, '9242' has brown pods and seeds with brown hilum, whereas '9301' has tan pods and seeds with black hilum.			
9500004	HT261 STS	Y	(*) 06/30/1997	Genecorp, Inc.
	'HT261 STS' is most similar to 'A2943'. However, 'HT261 STS' carries the Als1 gene conferring tolerance to sulfonylurea herbicides, while 'A2943' does not have this gene. In addition, 'HT261 STS' carries the Rps1k gene for resistance to <u>Phytophthora megasperma</u> f. sp. <u>glycinea</u> (phytophthora root rot), while 'A2943' carries the Rps1a gene for resistance to <u>P. f. sp. glycinea</u> .			
9500005	HT331 STS	Y	(*) 06/30/1997	Genecorp, Inc.
	'HT331 STS' is most similar to 'A3304'. However, 'HT331 STS' has a low seed protein peroxidase activity and a type A electrophoretic protein band. In contrast, 'A3304' has a high peroxidase activity and a type B electrophoretic protein band.			
9500006	HT381 STS	Y	06/30/1997	Genecorp, Inc.
	'HT381 STS' is most similar to 'A4045'; however, 'HT381 STS' has the seed protein electrophoretic band B present, whereas 'A4045' has seed protein electrophoretic band A present.			

(\*) To be sold by variety name only as a class of certified seed. A number within parentheses indicates the number of generations of certified seed permitted beyond breeder's seed.

CERTIFICATES ISSUED, AND NOVELTY BASED ON APPLICANT'S CLAIM  
APRIL 1, 1997 TO JUNE 30, 1997

CERT. NO.	VARIETY	1994 ACT	GEN. (*)	ISSUE DATE	NAME OF OWNER
SOYBEAN (continued)					
9500033	9321	Y	06/30/1997	Pioneer Hi-Bred International, Inc.	
	'9321' is most similar to 'DSR-304', however, '9321' has seeds with black hil <sup>a</sup> .				
9500131	KS4694	Y	(3) 05/30/1997	Kansas Agricultural Experiment Station	
	'KS4694' is most similar to 'Sherman', however, 'KS4694' is in the mid group III maturity class, whereas, 'Sherman' is in the mid group III maturity class.				
9500149	FFR 553	Y	05/30/1997	FFR Cooperative	
	'FFR 553' is most similar to 'FFR 561', however, 'FFR 553' has purple flowers and brown pubescence; whereas, 'FFR 561' has white flowers and gray pubescence.				
9500154	DP 3519S	Y	05/30/1997	Delta and Pine Land Company	
	'DP 3519S' is most similar to 'DP 415', 'Hutcheson', 'A5545', and 'A5403'; however, 'DP 3519S' has tolerance to sulfonylurea herbicides, whereas 'DP 415', 'Hutcheson', and 'A5403' are susceptible to those herbicides. 'DP 3519S' has a light purple hypocotyl, whereas 'A5545' has a dark purple hypocotyl.				
9500155	DP 3571S	Y	05/30/1997	Delta and Pine Land Company	
	'DP 3571S' is most similar to 'DP 105', '9592', and 'A5545'; however, 'DP 3571S' has tolerance to sulfonylurea herbicides, whereas 'DP 105', and '9592', are susceptible to those herbicides. 'DP 3571S' has a light purple hypocotyl, whereas 'A5545' has a dark purple hypocotyl.				

(\*) To be sold by variety name only as a class of certified seed. A number within parentheses indicates the number of generations of certified seed permitted beyond breeder's seed.

CERTIFICATES ISSUED, AND NOVELTY BASED ON APPLICANT'S CLAIM  
APRIL 1, 1997 TO JUNE 30, 1997

CERT. NO.	VARIETY	1994 ACT	GEN. (*)	ISSUE DATE	NAME OF OWNER
<b>SOYBEAN (continued)</b>					
9500192	S20-91	Y	06/30/1997	Novartis Seeds, Inc.	
					'S20-91' is most similar to 'S19-90'; however, the varieties may be differentiated on the basis of DNA fingerprinting, specifically, Simple Sequence Repeats. When tested with 30 primer pairs known to vary among soybean genotypes, 'S20-91' differs from 'S19-90' at eight loci; those amplified by primer pairs Satt1, Satt2, Satt3, Satt177, Satt184, Satt186, Satt188, and Satt231. In summary, the data suggest that there is only a 73% similarity between the two varieties.
9500278	A4341	Y	06/30/1997	Asgrow Seed Company	
					'A4341' is most similar to 'A4595', '9442', 'CX411', and 'CX434'; however, 'A4341' has purple flowers, brown pods, and has the Rps1-k allele for resistance to <i>Phytophthora megasperma</i> f. sp. <i>glycinea</i> (phytophthora root rot), whereas, 'A4595' has white flowers and the Rps1-a allele for resistance to <i>P. ill.</i> f. sp. <i>glycinea</i> . 'A4341' differs from '9442' in that '9442' has the Rps1-a allele for resistance to phytophthora. 'A4341' differs from 'CX411' in that 'CX411' has white flowers. 'A4341' differs from 'CX434' in that the latter has tan pods.
9500313	A1923	Y	05/30/1997	Asgrow Seed Company	
					'A1923' is most similar to 'A2234' and 'A1900'; however, 'A1923' has tan pod walls and type A seed protein electrophoretic band, whereas 'A2234' has type b seed protein electrophoretic band, and 'A1900' has brown pod walls.

(\*) To be sold by variety name only as a class of certified seed. A number within parentheses indicates the number of generations of certified seed permitted beyond breeder's seed.

CERTIFICATES AMENDED  
APRIL 1, 1997 TO JUNE 30, 1997

The following certificates have been amended in accordance with sections 97.103, 97.122, and 97.130 of the Regulations and Rules of Practice under the Plant Variety Protection Act.

CERT. NO.	VARIETY	GEN. ISSUE (*) DATE	NAME OF OWNER
BEAN, FIELD 8400006	Midland	06/30/1986	Seminis Vegetable Seeds, Inc.
	Name of owner changed from Asgrow Seed Co. to Seminis Vegetable Seeds, Inc.		
8400007	Northland	05/30/1986	Seminis Vegetable Seeds, Inc.
	Name of owner changed from Asgrow Seed Co. to Seminis Vegetable Seeds, Inc.		
8400008	Wesland	12/31/1986	Seminis Vegetable Seeds, Inc.
	Name of owner changed from Asgrow Seed Co. to Seminis Vegetable Seeds, Inc.		
8500139	Lark	04/30/1987	Seminis Vegetable Seeds, Inc.
	Name of owner changed from Asgrow Seed Co. to Seminis Vegetable Seeds, Inc.		
BEAN, GARDEN 8000121	Peak	11/19/1981	Seminis Vegetable Seeds, Inc.
	Name of owner changed from Asgrow Seed Co. to Seminis Vegetable Seeds, Inc.		

(\*) To be sold by variety name only as a class of certified seed. A number within parentheses indicates the number of generations of certified seed permitted beyond breeder's seed.

< > Identifies temporary designations.

CERTIFICATES AMENDED  
APRIL 1, 1997 TO JUNE 30, 1997

CERT. NO.	VARIETY	GEN. ISSUE (*)	ISSUE DATE	NAME OF OWNER
8300067	Labrador	05/30/1986		Seminis Vegetable Seeds, Inc.
	Name of owner changed from Asgrow Seed Co. to Seminis Vegetable Seeds, Inc.			
8400021	Latemar	12/27/1985		Seminis Vegetable Seeds, Inc.
	Name of owner changed from Asgrow Seed Co. to Seminis Vegetable Seeds, Inc.			
8400022	Atlantic	12/27/1985		Seminis Vegetable Seeds, Inc.
	Name of owner changed from Asgrow Seed Co. to Seminis Vegetable Seeds, Inc.			
85000135	Tess	03/31/1987		Seminis Vegetable Seeds, Inc.
	Name of owner changed from Asgrow Seed Co. to Seminis Vegetable Seeds, Inc.			
8500136	Volare	02/27/1987		Seminis Vegetable Seeds, Inc.
	Name of owner changed from Asgrow Seed Co. to Seminis Vegetable Seeds, Inc.			
8500137	Laureat	06/30/1987		Seminis Vegetable Seeds, Inc.
	Name of owner changed from Asgrow Seed Co. to Seminis Vegetable Seeds, Inc.			

(\*) To be sold by variety name only as a class of certified seed. A number within parentheses indicates the number of generations of certified seed permitted beyond breeder's seed.

< > Identifies temporary designations.

CERTIFICATES AMENDED  
APRIL 1, 1997 TO JUNE 30, 1997

CERT. NO.	VARIETY	GEN. ISSUE (*)	DATE	NAME OF OWNER
PEA (continued) 8200010	Dual		09/23/1982	Seminis Vegetable Seeds, Inc.
	Name of owner changed from Asgrow Seed Co. to Seminis Vegetable Seeds, Inc.			
8200012	Trolley		04/15/1982	Seminis Vegetable Seeds, Inc.
	Name of owner changed from Asgrow Seed Co. to Seminis Vegetable Seeds, Inc.			
8200013	Bonnaire		04/15/1982	Seminis Vegetable Seeds, Inc.
	Name of owner changed from Asgrow Seed Co. to Seminis Vegetable Seeds, Inc.			
8200097	Plus		12/30/1982	Seminis Vegetable Seeds, Inc.
	Name of owner changed from Asgrow Seed Co. to Seminis Vegetable Seeds, Inc.			
8300134	Perk		09/28/1984	Seminis Vegetable Seeds, Inc.
	Name of owner changed from Asgrow Seed Co. to Seminis Vegetable Seeds, Inc.			
8400092	Bemol		05/31/1985	Seminis Vegetable Seeds, Inc.
	Name of owner changed from Asgrow Seed Co. to Seminis Vegetable Seeds, Inc.			

(\*) To be sold by variety name only as a class of certified seed. A number within parentheses indicates the number of generations of certified seed permitted beyond breeder's seed.  
< > Identifies temporary designations.

CERTIFICATES AMENDED  
APRIL 1, 1997 TO JUNE 30, 1997

CERT. NO.	VARIETY	GEN. (*)	ISSUE DATE	NAME OF OWNER
BEAN, GARDEN 8600094	(continued) Yukon	09/29/1989		Seminis Vegetable Seeds, Inc.
	Name of owner changed from Asgrow Seed Co. to Seminis Vegetable Seeds, Inc.			
8600095	Bronco	11/30/1990		Seminis Vegetable Seeds, Inc.
	Name of owner changed from Asgrow Seed Co. to Seminis Vegetable Seeds, Inc.			
BEAN, GARDEN SHELL 8500138	Buttergreen	01/30/1987		Seminis Vegetable Seeds, Inc.
	Name of owner changed from Asgrow Seed Co. to Seminis Vegetable Seeds, Inc.			
ONION 8500193	Contessa	06/30/1986		Seminis Vegetable Seeds, Inc.
	Name of owner changed from Asgrow Seed Co. to Seminis Vegetable Seeds, Inc.			
PEA 8200009	Dew	09/23/1982		Seminis Vegetable Seeds, Inc.
	Name of owner changed from Asgrow Seed Co. to Seminis Vegetable Seeds, Inc.			

(\*) To be sold by variety name only as a class of certified seed. A number within parentheses indicates the number of generations of certified seed permitted beyond breeder's seed.  
< > Identifies temporary designations.

CERTIFICATES AMENDED  
APRIL 1, 1997 TO JUNE 30, 1997

CERT. NO.	VARIETY	GEN. (*)	ISSUE DATE	NAME OF OWNER
PEA (continued) 8400093	Menet		05/31/1985	Seminis Vegetable Seeds, Inc.
8400094	Name of owner changed from Asgrow Seed Co. to Seminis Vegetable Seeds, Inc. Envy		06/28/1985	Seminis Vegetable Seeds, Inc.
8400103	Name of owner changed from Asgrow Seed Co. to Seminis Vegetable Seeds, Inc. Payload		06/28/1985	Seminis Vegetable Seeds, Inc.
8400104	Name of owner changed from Asgrow Seed Co. to Seminis Vegetable Seeds, Inc. Elegance		06/28/1985	Seminis Vegetable Seeds, Inc.
8400105	Name of owner changed from Asgrow Seed Co. to Seminis Vegetable Seeds, Inc. Vulcan		06/28/1985	Seminis Vegetable Seeds, Inc.
8400106	Name of owner changed from Asgrow Seed Co. to Seminis Vegetable Seeds, Inc. Trek		06/28/1985	Seminis Vegetable Seeds, Inc.
				Name of owner changed from Asgrow Seed Co. to Seminis Vegetable Seeds, Inc.

(\*) To be sold by variety name only as a class of certified seed. A number within parentheses indicates the number of generations of certified seed permitted beyond breeder's seed.  
< > Identifies temporary designations.

CERTIFICATES AMENDED  
APRIL 1, 1997 TO JUNE 30, 1997

CERT. NO.	VARIETY	GEN. ISSUE (*)	DATE	NAME OF OWNER
PEA (continued)				
8400107	Rampart	07/26/1985		Seminis Vegetable Seeds, Inc.
	Name of owner changed from Asgrow Seed Co. to Seminis Vegetable Seeds, Inc.			
8400125	Now	07/26/1985		Seminis Vegetable Seeds, Inc.
	Name of owner changed from Asgrow Seed Co. to Seminis Vegetable Seeds, Inc.			
8500130	Goya	02/28/1986		Seminis Vegetable Seeds, Inc.
	Name of owner changed from Asgrow Seed Co. to Seminis Vegetable Seeds, Inc.			
8500131	Utrillo	02/28/1986		Seminis Vegetable Seeds, Inc.
	Name of owner changed from Asgrow Seed Co. to Seminis Vegetable Seeds, Inc.			
8500132	Sáber	02/28/1986		Seminis Vegetable Seeds, Inc.
	Name of owner changed from Asgrow Seed Co. to Seminis Vegetable Seeds, Inc.			

(\*) To be sold by variety name only as a class of certified seed. A number within parentheses indicates the number of generations of certified seed permitted beyond breeder's seed.

< > Identifies temporary designations.

CERTIFICATES AMENDED  
APRIL 1, 1997 TO JUNE 30, 1997

CERT. NO.	VARIETY	GEN. (*)	ISSUE DATE	NAME OF OWNER
PEA (continued) 8500133	Leah		02/28/1986	Seminis Vegetable Seeds, Inc.
	Name of owner changed from Asgrow Seed Co. to Seminis Vegetable Seeds, Inc.			
8500134	Citadel		01/31/1986	Seminis Vegetable Seeds, Inc.
	Name of owner changed from Asgrow Seed Co. to Seminis Vegetable Seeds, Inc.			

(\*) To be sold by variety name only as a class of certified seed. A number within parentheses indicates the number of generations of certified seed permitted beyond breeder's seed.  
< > Identifies temporary designations.

## CERTIFICATES EXPIRED

APRIL 1, 1997 TO JUNE 30, 1997

The term of protection has expired for the certificates listed below. The U.S. Plant Variety Protection Act no longer prohibits the unauthorized propagation of these varieties nor requires them to be sold by variety name only as a class of certified seed. However, varieties published in this list may possibly be protected under the Patent Act.

CERT. NO.	VARIETY	EXPIRATION DATE	NAME OF OWNER
BEAN, FIELD 7900075	Tuscola	05/01/1997	Michigan State University
BEAN, GARDEN 7800103	Smilo	05/01/1997	Royal Sluis B.V.
8000048	Gäлагold	06/05/1997	Gälatin Valley Seed Company
8000049	BBL 109	06/05/1997	Gälatin Valley Seed Company
8000058	Roma II	05/15/1997	Rogers Brothers Seed Company
BEAN, LIMA 7900042	Sprigg	06/05/1997	Ben Fish and Son
CAULIFLOWER 7800079	Dok Elgon	06/19/1997	Royal Sluis B.V.
CORN, FIELD 7900077	Seagull Seventeen	06/26/1997	Rothermel Seed Company
CORN, POPCORN 7900100	Pop-N-Eat	05/01/1997	Russell and Louise James
COTTON 7900006	Dunn 219	05/29/1997	Dunn Seed Farms, Inc.
7900071	GSA 74	04/24/1997	The Lubrizol Corporation
7900072	GSA 78	06/19/1997	The Lubrizol Corporation

CERTIFICATES EXPIRED  
APRIL 1, 1997 TO JUNE 30, 1997

CERT. NO.	VARIETY	EXPIRATION DATE	NAME OF OWNER
FESCUE, RED 7800092	Merlin	06/05/1997	National Seed Development Organization Ltd.
FESCUE, TALL 7900101	Forager	05/01/1997	FFR Cooperative
LETUCE 8000043	Viva II	05/15/1997	Koninklijke Zaai zaadbedrijven Gebroeders Sluis, B.V.
MARIGOLD 7900060 7900084 8000053	Happy Red Spry Boy Janie	05/01/1997 05/01/1997 05/29/1997	W. Atlee Burpee Company Denholm Seeds Goldsmith Seeds, Inc.
OAT 7900090	Brooks	06/26/1997	North Carolina Agricultural Research Service
PEA 8000001	Proto IV	05/01/1997	Wilbur-Ellis Company
RYEGRASS, PERENNIAL 7800001	Yorktown II	05/01/1997	Lofts Seed, Inc.
SAINFOIN 7200105	Remont	04/24/1997	Montana Agricultural Experiment Station

CERTIFICATES EXPIRED  
APRIL 1, 1997 TO JUNE 30, 1997

CERT. NO.	VARIETY	EXPIRATION DATE	NAME OF OWNER
7900061	Cumberland	05/29/1997	Iowa Agriculture and Home Economics Experiment Station
7900089	McNair 770	06/19/1997	Northrup King Company
7900097	Beeson 80	05/29/1997	Purdue University Agricultural Experiment Station
7900098	Century	05/29/1997	Purdue University Agricultural Exper. Station and SEA, USDA
7900105	Duke	06/26/1997	V. R. Seeds, Inc.
7900106	Magnum	05/15/1997	V. R. Seeds, Inc.
7900108	Gutwein 221	04/24/1997	Soybean Research Foundation, Inc.
7900110	PL 70-1054-60	05/15/1997	Soybean Research Foundation, Inc.
7900111	PL 72-3176L	05/15/1997	Soybean Research Foundation, Inc.
8000015	Riverside 2025	05/15/1997	The Lubrizol Corporation
8000045	Deltapine 345	06/19/1997	Delta and Pine Land Company
8000061	Weber	06/19/1997	Iowa Agriculture and Home Economics Experiment Station
8000063	Pella	06/05/1997	Iowa Agriculture and Home Economics Experiment Station
8000071	TC 137	05/15/1997	Agripro Seeds, Inc.
8000072	AP 200	06/19/1997	Agripro Seeds, Inc.
<b>WHEAT, COMMON</b>			
7900074	World Seeds 13	06/26/1997	World Seeds, Inc.
8000012	Dancer	06/05/1997	Agripro Seeds, Inc.
8000022	James	04/24/1997	South Dakota Agricultural Experiment Station

## GENERAL INFORMATION ON PLANT VARIETY PROTECTION

The Plant Variety Protection Act provides patent-like protection (plant breeders' rights) for sexually (i.e., seed) and tuber reproduced plants. The variety must be distinct from all other varieties, uniform, and stable. If the variety has been sold or used in the United States for more than one year or in a foreign country for longer than four years, then the variety is ineligible for protection. Use of the variety includes selling or disposing of reproductive or harvested material of the variety or use as a parent in a first generation hybrid.

Please submit your complete application (completed and signed application form, Exhibits A,B,C, & E, seeds, and fees) to our office before the period of eligibility expires. You may choose a representative to complete and receive all paperwork on your behalf. Current costs are given in the Regulations and Rules of Practice (Section 97.175) and on the application form.

To obtain copies of application forms, the Plant Variety Protection Act and its Regulations and Rules of Practice, please send a request including the crop type to: Plant Variety Protection Office, 10301 Baltimore Blvd., Room 500, Beltsville, Maryland 20705-2351.

Internet users now have access to the U.S. Department of Agriculture on the Plant Variety Protection Act. The homepage provides up-to-date information on applications received by the Plant Variety Protection Office. To access the Plant Variety Protection homepage via the World Wide Web, point your browse server to:

<http://www.usda.gov/science/pvp.htm>

### References

Plant Variety Protection Act: Public Law 91-577, 84 Stat. 1542-1559; Dec. 24, 1970  
as amended by:  
Public Law 96-574, 94 Stat. 3350-3352. Sec. 1-19; Dec. 22, 1980  
Public Law 97-164, 96 Stat. 37-38, 41, and 45. Sec. 127, 134, 145; April 2, 1982  
Public Law 100-203, 101 Stat. 1330-28. Sec. 1505; Dec. 22, 1987  
Public Law 102-560, 106 Stat. 4231, 4232. Sec. 3; Oct. 28, 1992  
Public Law 103-349, 108 Stat. 3136-3145. Sec. 1-15; Oct. 6, 1994  
Public Law 104-127, 110 Stat. 1186, Sec. 913; April 4, 1996  
and  
Regulations and Rules of Practice, 7 CFR, Part 97, as of January 4, 1996

## PVP OFFICE STAFF

**Commissioner** Alan A. Atchley (Acting Commissioner)

**Examiners:**

Alan A. Atchley  
Thomas A. Salt  
Robert W. Schlegel  
Janice M. Strachan  
Jeffrey L. Strachan

Small Grains, Fodder Grasses, Herbs, Tubers  
Fiber Crops, Turf Grasses, Rice, Peanuts  
Beans, Peas, Lettuce, Sorghum, Tomatoes  
Corn, Peppers, Flowers and Ornamentals  
Soybeans

**Information Specialists:**

Robin A. Davis  
Mark A. Hermeling  
Larry Kalinowski  
James R. Mantooh  
Cliff G. Martin

**Assistant to:**

Tom Salt  
Robert Schlegel  
Jeff Strachan  
Janice Strachan  
Alan Atchley

**Support Staff:**

Marian R. Minnifield  
Anne M. Schroeder  
  
Lashawn L. Smith  
  
Cheryl D. Sultzer

General Information and Assignments  
General Information, Applications and Copies of Certificates  
General Information, Applications and Copies of Certificates  
Computer Specialist (Publications and Homepage)

Staff can be e-mailed by [firstname\\_initial\\_lastname@usda.gov](mailto:firstname_initial_lastname@usda.gov).

#### DESCRIPTION OF PUBLIC VARIETIES

In accordance with section 97.800 of the Plant Variety Protection Act, descriptions of "public varieties" voluntarily submitted on the PVP objective description forms will be accepted for publication in the PVP Official Journal. Publication of such descriptions in no way constitutes recognition of the variety as distinct or entitles it to protection under the Plant Variety Protection Act.

The following is a description of a public variety of tobacco developed by Dr. E. A. Wernsman at North Carolina State University. Request for seed samples and further information about this variety should be directed to Mr. Michael W. Baker, Manager, N.C. Foundation Seed Producers, Inc., 8220 Riley Hill Rd., Zebulon, N.C., 27597.

## VOLUNTARY TOBACCO DESCRIPTION

Variety Name: 'NC 72'

'NC 72' is a cytoplasmic male-sterile  $F_1$  flue-cured tobacco hybrid produced by crossing breeding lines <NC 2560> X <NC 92-2770-40>. Parental line <NC 2560> was developed from a population formed by crossing breeding lines <NCTG 55> with <924025>. <NCTG 55> was later released as cultivar 'NC 55'. <NC 92-2770-40> is a doubled haploid line developed from an  $F_1$  hybrid of breeding line <NCTG 60> ('K 326' X 'Coker 371-Gold') crossed to 'K 326'. The female parent <NC 2560> was converted to male sterility by backcrossing the line into a *Nicotiana suaveolens* cytoplasmic source. Flowers are actually stamens, and contain one rudimentary pistil in place of the five stamens. 'NC 72' possesses a single gene conferring parthenocarpic development of fruit when flowers are not pollinated. Such fruit contains no viable seed, however. 'NC 72' was tested as <NCTG 72> and <NCTG 87>.

Class		Internode length
Flue-cured		5.5 cm
Maturity class		Leaf carriage
Very late		Arched
Maturity	67	Leaf color
days		Medium green
Height class		Leaf shape
Medium		Broadest
Plant height topped		below middle
104 cm		Leaf tip shape
Plant height not topped		Acuminate
146 cm		Leaf venation
5th leaf length		Angular
58.5 cm		Leaf surface
5th leaf width		Puckered
35.0 cm		Leaf margin
5th leaf angle	45°	Not wavy
10th leaf length		Leaf margin curving
63.0 cm		Not recurved
10th leaf width		Flower color
30.1 cm		Pink
10th leaf angle	57°	Flower habit
15th leaf length		Intermediate
58.0 cm		Plant form
15th leaf width		Columnar
25.3 cm		Ground suckers/plant
15th leaf angle	42°	0.2
Leaf yield		% Nicotine
3755 kg/ha		2.78
Leaf number topped	20	% Nor nicotine
Leaf number not topped	23	0.14
		% Total nitrogen
		2.27
		% Reducing sugars
		17.2

Plant Diseases: 'NC 72' possesses moderate resistance to bacterial wilt caused by *Pseudomonas solanacearum* and is resistant to races 1 and 3 of the root-knot nematode, *Meloidogyne incognita*. It is susceptible to races 2 and 4 of the nematode. 'NC 72' possesses a very high level of resistance to tobacco black shank caused by *Phytophthora parasitica* var. *nicotianae*. The very high black shank resistance results from a single qualitative gene that confers complete resistance to the common race of this organism, race 0. pyramided upon an oligo genic resistance originally derived from the cigar cultivar 'FLA 301'. The resistance mechanism from 'FLA 301' is equally effective against both races of this fungus. The qualitative gene is of no value in controlling race 1 of *P. parasitica* var. *nicotianae*, however. 'NC 72' is susceptible to all of the major viral diseases of flue-cured tobacco. These include tobacco mosaic virus, tobacco etch virus, potato virus Y and tomato spotted wilt virus.

---

The U.S. Department of Agriculture (USDA) prohibits discrimination in its programs on the basis of race, color, national origin, sex, religion, age, disability, political beliefs, and marital or familial status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

---

To file a complaint, write the Secretary of Agriculture, U.S. Department of Agriculture, Washington, DC 20250, or call (800) 245-6340 (voice) or (202) 720-1127 (TDD). USDA is an equal employment opportunity employer.

---



**United States Department of Agriculture**  
Marketing and Regulatory Programs  
Agricultural Marketing Service  
Plant Variety Protection Office  
NAL Building, Room 500  
10301 Baltimore Blvd.  
Beltsville, Maryland 20705-2351

---

Official Business  
Penalty for Private Use, \$300